

Claims

1. A ball valve, comprising:

a first valve casing made of a thermosetting resin, comprising:

a first ball seat;

a first coupling flange provided around the first ball seat;

a first lever receiving part provided on a predetermined portion of the first coupling flange;

a first ring-shaped groove provided along both the first coupling flange and the first lever receiving part and having a semicircular cross-section;

a plurality of first coupling holes provided on the first coupling flange; and

a first stopper provided on an end of the first lever receiving part;

a second valve casing made of the thermosetting resin and provided to be symmetrical to the first valve casing, comprising:

a second ball seat;

a second coupling flange provided around the second ball seat;

a second lever receiving part provided on a predetermined portion of the second coupling flange;

a second ring-shaped groove provided along both the second coupling flange and the second lever receiving part and having a semicircular cross-section;

a plurality of second coupling holes provided on the second coupling flange; and

a second stopper provided on an end of the second lever receiving part;

a ball seated in both the first ball seat of the first valve casing and the second ball seat of the second valve casing to control a flow of a fluid;

a control lever coupled to the ball to control the ball, with a stop projection provided on a predetermined portion of the control lever to engage with the first and second stoppers of the first and second lever receiving parts;

a ring unit seated in both the first ring-shaped groove of the first valve casing and the second ring-shaped groove of the second valve casing, the ring unit comprising:

a first ring part seated in parts of both the first and second ring-shaped grooves provided on the first and second coupling flanges; and

a second ring part integrally coupled to the first ring part and seated in

parts of both the first and second ring-shaped grooves provided on the first and second lever receiving parts; and
a cap fastened to both the first and second lever receiving parts.

2. The ball valve according to claim 1, further comprising:
an external thread provided on outer surfaces of the first and second lever receiving parts; and
an internal thread provided on an inner surface of the cap.
3. The ball valve according to claim 1, further comprising:
a packing and a packing support unit provided around an inner end of each of first and second through holes of the first and second valve casings.
4. The ball valve according to claim 2, further comprising:
a packing and a packing support unit provided around an inner end of each of first and second through holes of the first and second valve casings.